

Code	Description	Size	Colour
00178	Gorilla Ultrabonder Precision Liquid	10gr	Clear
01300	Gorilla Ultrabonder Power Liquid Tube	3gr	Clear
01303	Gorilla Ultrabonder Power Liquid Tube 2pk	3gr	Clear

1. Description

Gorilla Ultrabonder Precision Liquid/Power Liquid is a high strength, top fast setting adhesive which can be used for virtually any type of fastening job. It has become a unique product featuring the fastest setting ability in the realm of Cyanoacrylate Adhesive. Gorilla Ultrabonder Precision Liquid/ Power Liquid is specially designed for bonding and repairing of wooden furniture. When a thin layer of Gorilla Ultrabonder Precision Liquid/ Power Liquid applied between two surfaces comes into contact with atmospheric moisture, a rapid polymerization occurs producing the ultimate bond.

2. Characteristics

- High strength
- Top fast setting adhesive
- One component
- Solvent-free
- Does not require use of catalyst, heat or clamps

3. Technical Data

Base:	Ethyl Cyanoacrylate
Colour:	Clear
Specific Gravity (20 °C):	1.05
Refractive Index (n_{20D}):	1.439
Flash Point (°C):	See MSDS
Vapour Pressure (hPa):	<1
Viscosity (cP) , 25 °C:	1–5

4. Applications

- Ceramics/Tiles
- Hardwood
- Laminated plastics
- Metals
- Paper
- Foam plastics
- Some PVC
- Other non-porous surfaces

5. Packaging

00178 – 10gr
 01300 – 3gr
 01303 – 3gr

6. Shelf Life

12 months

7. Application Instructions

Method: Dispense a drop or drops to one surface only. Apply only enough to leave a thin film after compression. Press parts together and hold firmly for a few seconds. Good contact is essential. An adequate bond develops in less than one minute. (Maximum strength is achieved in 24 to 48 hours). Wipe off excess adhesive from the top of the container and recap Gorilla Ultrabonder Precision Liquid/Power Liquid if left uncapped, may deteriorate by contamination from moisture in the air. Because Gorilla Ultrabonder Precision Liquid/Power Liquid condenses by polymerization, sometimes whitening will occur on the surface of the container or the bonded materials. Should this happen, wipe surfaces well with acetone.

Curing Performance

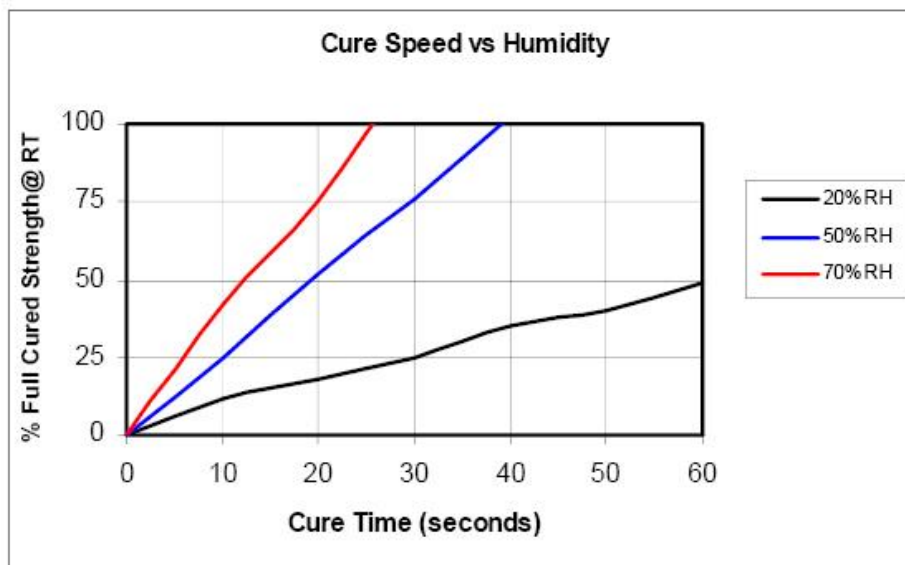
There are many factors that can influence the rate of cure. These include: the types of substrate used, the condition of the surface to be bonded, the smoothness of the surface, the closeness of the surfaces, the atmospheric conditions etc.

Cure Speed/Substrate

<i>Steel to Steel</i>	10–30 seconds
<i>ABS to ABS</i>	3–5 seconds
<i>ABS to NBR</i>	3–5 seconds
<i>ABS to Wood</i>	5–10 seconds
<i>NBR to NBR</i>	3–5 seconds
<i>Wood</i>	20–30 seconds
<i>Polycarbonate</i>	20–60 seconds

Cure Speed / Humidity

The following graph shows the tensile strength developed at different levels of humidity.



Cure Speed / Bond Gap

The rate of cure depends on the bond-gap. A smaller bond-gap results in faster the cure speed.

Typical Properties of Cured Material

Physical Properties	
Colour	Clear
Coefficient of Thermal Expansion (K-1)	100 x 10 ⁻⁶
Coefficient of Thermal Conductivity (W/m.K)	0.10
Working Temperature	-50°C ~ 80°C
Electrical Properties	
Volume Resistivity (Ω.cm)	2–10 x 10 ¹⁵
Surface Resistivity (Ω)	10 to 80 x 10 ¹⁵
Dielectric Constant @ 10 kHz	2.5
Dielectric Dissipation Factor @ 10 kHz	<0.02
Dielectric Breakdown Strength (kV/mm)	25

Adhesive Performance

Tensile Strength	Kg/ cm2
Steel	150 – 190
Stainless Steel	150 – 180
Aluminum	140 – 170
Copper	130 – 150
PVC	40 – 60
ABS	50 – 70
Polycarbonate	80 – 120
Polystyrene	30 – 45
NBR	5 – 9
SBR	5 – 10

Handling and Storage

Storage: Keep products in the unopened container in a cool and dry location. Best when stored at 2 to 8°C. Temperatures less than

2°C can adversely affect product properties. Do Not Freeze. Keep container tightly closed until ready for use.

Handling: Material removed from containers may be contaminated during use. Do not pour back any product to the original container. Misuse of product will void all warranties.

Precaution

- Use with proper ventilation. Avoid contact with skin and eyes.
- If contact with skin occurs, rinse with warm water or dissolve gradually with solvent such as acetone, or nitromethane. Do not try to remove forcibly.
- If adhesive gets into eye, keep eye open and rinse thoroughly. Seek medical attention immediately.
- Keep well out of reach of children.
- Keep adhesive in a cool, dry place 20-25°C (68-77°F). For long-term storage, refrigeration (2°C or 35°F) is recommended.

8. Health and Safety Recommendation

- Apply the usual industrial hygiene.
- Wear gloves and safety goggles.

Remark

*The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email sales@soudal.co.nz.***

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